MaxiCode Decompression

Process

MaxiCode Compression

Process

Fig. 1

Table 1 ANSI-Compliant Interface Specification (Compressor Input)

FIELD NAME	MAX SIZE (BYTES) & TYPE	OPTIONAL
Message Header 1)>Rs	4	
Format 01 Header 01 Gs96	5	
Ship to Postal Code	Mode 2, 9N Mode 3, 6AN	
Field Separator Gs	1	
Ship to ISO Country Code	3N	
Field Separator Gs	1	
Class of Service	3N	
Field Separator Gs	1	
Tracking Number	10AN	
Field Separator Gs	1	
Origin Carrier SCAC UPSN	4	
Field Separator Gs	1	X
Shipper ID	6ÂN	
Field Separator Gs	1	
Julian Date of Pickup	N3	
Field Separator Gs	1	
Shipment ID	ANO. 30	
Field Separator Gs	1	
	NO. 3/NO. 3	
Shipment N of X	NO. 3/NO. 3	
Field Separator Gs	<del></del>	
Weight	NO. 10	
Field Separator Gs	1	
Address Validation (Y/N)	1	
Field Separator Gs	1	
Ship To Address	ANO. 35	
Field Separator Gs	1	
Ship To City	A0. 35	
Field Separator Gs	1	
Ship To State	A2	
Format Trailer Rs	1	
Format 05 Header	2	
Field Separator Gs	1	
Ship To Address Line 2	AN3 + ANO. 35	
Application Identifier (201)		
Field Separator Gs	11	
Ship To Address Line 3	AN3 + ANO. 35	
Application Identifier (211)		
Field Separator Gs	1	
Ship To Address Line 4	AN3 + ANO. 35	
Application Identifier (22L)		
Field Separator Gs	1	
Ship To Address Line 5	AN3 + ANO. 35	
Application Identifier (23L)		
Format Trailer (Rs)	1	
Message Trailor Lot	1	

Package Info:

Music Corp

Attn: Sam Smith

Room 202, Music Dept

813 Main St

Shaumburg, IL 12345 Country Code: 001 Class of Service: 001

Tracking Number: 1Z12345675

Shipper ID: 123456 Julian Date of Year: 123

Weight: 1lb

City/State/Postal Code have been validated

## Fig. 3A

[)>Rs 01Gs96123450000Gs001Gs001Gs1Z12345675GsUPSNGs123456 Gs123GsGs1/1Gs1GsY Gs813 MAIN STGsSHAUMBURGGsILRs 05Gs20LROOM 202Gs21LMUSIC DEPTGs22LMUSIC CORPGs23LSAM SMITHRs Eot

Fig. 3B

1 22 23

```
{ "0x1d", 000000000000000000000000000110b, 3, 0, 0 }.
{ "/", 00000000000000000000001001100111b, 10, 0, 0 },
\(\frac{1}{3}\)"0". 00000000000000000000010001001100110b, 14, 0, 0 \(\frac{1}{3}\),
{ "00", 0000000000000000000000011100000b, 8, 0, 28 },
["01", 0000000000000000000000000000110b, 8, 0, 30 },
{ "02", 0000000000000000000001011011111b, 10, 0, 25 },
"04", 00000000000000000000000010111110b, 10, 0, 26 },
{ "05", 0000000000000000000001110110011b, 10, 0, 26 },
{ "06", 0000000000000000000000001111101b, 10, 0, 26 },
{ "07", 000000000000000000000000110010b, 10, 0, 31 },
"08", 00000000000000000000000001000110b, 10, 0, 26 },
7"09", 00000000000000000000000010110100b, 10, 0, 28 },
["1", 00000000000000000000001000101110b, 16, 0, 0 },
{ "10", 0000000000000000000000010001011b, 8, 0, 30 },
{ "11", 0000000000000000000000111011000b, 9, 0, 32 },
{ "12", 0000000000000000000000101100011b, 9, 0, 27 },
{ "13", 00000000000000000000000001101100b, 9, 0, 27 },
{ "14", 0000000000000000000000001011110b, 9, 0, 28 },
{ "15", 00000000000000000000000111010b, 9, 0, 28 },
{ "16", 0000000000000000000000000000110b, 9, 0, 28 },
{ "17", 0000000000000000000000000100010b, 9, 0, 33 },
{ "18", 0000000000000000000001011100110b, 10, 0, 28 },
{ "19", 000000000000000000001110000110b, 10, 0, 30 },
{ "2", 0000000000000000000010001000110b, 11, 0, 0 },
{ "20", 000000000000000000000000001101b, 8, 0, 25 },
{ "21", 000000000000000000000001100001b, 9, 0, 27 },
{ "22", 000000000000000000001111000111b, 10, 0, 22 },
{ "23", 0000000000000000000001011011001b, 10, 0, 22 },
{ "24", 0000000000000000000001011011110b, 10, 0, 23 },
("25", 00000000000000000000000001001101b, 9, 0, 23 },
(*26*, 000000000000000000001000100101b, 10, 0, 23 },
{ "27", 0000000000000000000001000100010b, 10, 0, 28 },
{ "28", 0000000000000000000000011011011b, 10, 0, 23 },
{ "29", 0000000000000000000000001111111b, 10, 0, 25 },
{ "3", 0000000000000000000000011011111b, 11, 0, 0 },
( "30", 00000000000000000000001011010b, 9, 0, 25 ),
{ "31", 0000000000000000000001110001111b, 10, 0, 27 },
{ "32", 0000000000000000000001000101010b, 10, 0, 22 },
; "33", 00000000000000000000001001111100b, 10, 0, 22 },
{ "34", 0000000000000000000000010001b, 10, 0, 23 },
{ "35", 0000000000000000000001010010111b, 10, 0, 23 },
{ "36", 000000000000000000000001101110b, 10, 0, 23 }.
{ "38", 0000000000000000000010111001110b, 11, 0, 23 },
{ "39", 0000000000000000000011101100100b, 11, 0, 25 },
("4", 00000000000000000000100111011100b, 12, 0, 0 },
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{ "40", 000000000000000000000000100000110b, 9, 0, 26 },
{ "41", 00000000000000000000001001101101b, 10, 0, 28 },
{ "42", 0000000000000000000000011000000b, 10, 0, 23 },
{ "43", 0000000000000000000000000101100b, 10, 0, 23 },
{ "44", 0000000000000000000000000110001b, 10, 0, 24 },
{ "45", 00000000000000000000001111b, 10, 0, 24 },
{ "46", 00000000000000000000010111001111b, 11, 0, 24 },
{ "47", 00000000000000000000010110011010b, 11, 0, 29 },
{ "48", 00000000000000000000010100101011b, 11, 0, 24 },
{ "49", 0000000000000000000011100001110b, 11, 0, 26 },
{ "5", 00000000000000000000111101101001b, 12, 0, 0 },
{ "50", 0000000000000000000000101110111b, 9, 0, 26 },
{ "51", 00000000000000000000001101100b, 10, 0, 28 },
{ "52", 0000000000000000000000000101111b, 10, 0, 23 },
{ "53", 0000000000000000000011100001111b, 11, 0, 23 },
{ "54", 0000000000000000000010110110000b, 11, 0, 24 },
{ "55", 0000000000000000000001000101011b, 10, 0, 24 },
{ "56", 00000000000000000000011111011b, 11, 0, 24 },
{ "57", 00000000000000000000010001001001b, 11, 0, 29 },
{ "58", 0000000000000000000000110111111b, 11, 0, 24 },
{ "59", 0000000000000000000000110111110b, 11, 0, 26 },
{ "6", 00000000000000000000101110010010b, 12, 0, 0 },
{ "61", 00000000000000000000000010001000b, 10, 0, 28 },
{ "62", 0000000000000000000011110001001b, 11, 0, 23 },
{ "63", 0000000000000000000010110110110b, 11, 0, 23 },
{ "64", 0000000000000000000001010111b, 11, 0, 24 },
{ "65", 0000000000000000000000001101100b, 10, 0, 24 },
{ "66", 00000000000000000000010011b, 11, 0, 24 },
{ "67", 0000000000000000000000110111010b, 11, 0, 29 },
{ "68", 000000000000000000000011010b, 11, 0, 24 },
{ "69", 00000000000000000000000100111b, 11, 0, 26 },
{ "7", 0000000000000000100010010101010b, 17, 0, 0 },
{ "70", 0000000000000000000000000000101b, 9, 0, 31 },
{ "71", 000000000000000000000000001111b, 10, 0, 33 },
 "72", 0000000000000000000010110110111b, 11, 0, 28 },
 "73", 00000000000000000000010011001100b, 11, 0, 28 },
 "74", 00000000000000000000010000000000b, 11, 0, 29 },
 "75", 0000000000000000000000010001100b, 10, 0, 29 },
 "76", 0000000000000000000000010111111b, 11, 0, 29 },
 "77", 00000000000000000000001000000001b, 11, 0, 34 },
 "78", 000000000000000000000000010001111b, 11, 0, 29 },
 "79", 00000000000000000000000000010010b, 11, 0, 31 },
["8", 000000000000000000000100111011101b, 12, 0, 0 },
{ "80", 0000000000000000000001111000101b, 10, 0, 26 },
' "81", 00000000000000000000011110110101b, 11, 0, 28 },
{ "82", 0000000000000000000010111101100b, 11, 0, 23 },
{ "83", 000000000000000000001000010010b, 11, 0, 23 },
{ "84", 0000000000000000000000110110101b, 11, 0, 24 },
{ "85", 0000000000000000000010110011000b, 11, 0, 24 },
{ "86", 0000000000000000000000001011100b, 11, 0, 24 },
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{ "89", 0000000000000000000111011001011b, 12, 0, 26 },
{ "9", 0000000000000000000000010001010b, 14, 0, 0 },
 "90", 0000000000000000000001011000011b, 10, 0, 28 },
{ "91", 0000000000000000000010111001000b, 11, 0, 30 },
{ "92", 0000000000000000000010001001101b, 11, 0, 25 },
{ "93", 0000000000000000000000101101011b, 11, 0, 25 },
{ "94", 00000000000000000000000100011011b, 11, 0, 26 },
{ "95", 0000000000000000000010110011011b, 11, 0, 26 },
{ "96", 0000000000000000000000000010011b, 11, 0, 26 },
 "97", 00000000000000000000111100010001b, 12, 0, 31 },
 "98", 00000000000000000000000100010110b, 11, 0, 26 },
 "99", 000000000000000000000000010001110b, 11, 0, 28 },
{ "A", 000000000000000000000000111111b, 6, 0, 0 },
{ "AI", 0000000000000000000000111101100b, 9, 0, 12 },
{"ALL", 000000000000000000001010011000b, 10, 0, 16 },
{ "ALY", 0000000000000000010001001110b, 15, 0, 18 },
{ "AN", 00000000000000000000000011100b, 7, 0, 12 },
{ "AND", 000000000000000000001010011010b, 10, 0, 18 },
{ "ANY", 000000000000000000010110001001b, 11, 0, 19 },
{ "APT", 0000000000000000000101100010001b, 12, 0, 22 },
{ "AR", 000000000000000000000001010111b, 7, 0, 13 },
{ "ARC", 00000000000000000000111001b, 12, 0, 19 },
{ "AT", 000000000000000000000010101100b, 8, 0, 14 },
 "ATTN", 0000000000000000000000011111100b, 11, 0, 28 },
 "AU", 00000000000000000000001011000101b, 10, 0, 13 },
 "AUTO", 0000000000000000000000010011001b, 11, 0, 27 },
 "AVE", 0000000000000000000000010110010b, 8, 0, 20 },
 "B", 00000000000000000000000011110015, 7, 0, 0 },
 "BCH", 0000000000000000001011010101111001b, 17, 0, 20 },
 "BL", 0000000000000000000001011100101b, 10, 0, 12 },
 "BLDG", 00000000000000000000101100001001b, 12, 0, 25 },
 "BLVD", 00000000000000000000000000000011b, 9, 0, 26 },
 "BOX", 00000000000000000000001000001000b, 10, 0, 21 },
 "BR", 00000000000000000000000100111100b, 9, 0, 14 },
 "BRG", 000000000000000100010010000111010b, 18, 0, 21 },
 "BRK", 000000000000000000001000100111001b, 19, 0, 21 },
 "BRKS", 00000000011011010011010010100011b, 25, 0, 27 },
 "BSMT", 00000000001111011010000100100011b, 22, 0, 27 },
 "BYP", 00000000000000000000000100010010b, 15, 0, 22 },
 "C", 00000000000000000000000000000001b, 6, 0, 0 },
"C/O", 00000000000000000000100111110101b, 12, 0, 22 },
"CE", 0000000000000000000000000101100b, 8, 0, 12 },
 "CENT", 0000000000000000000001110001110b, 10, 0, 26 },
 "CIR", 00000000000000000000111100010000b, 12, 0, 19 },
"CIRS", 00000000000000010001001110000011b, 23, 0, 25 },
"CITY", 000000000000000000001101111011b, 12, 0, 27 },
{ "CK", 0000000000000000000000101101110b, 9, 0, 13 },
{ "COMP", 0000000000000000000000010001010b, 10, 0, 26 },
{ "COR", 000000000000000000000001011101b, 11, 0, 19 },
{"CORP", 0000000000000000000000010001111b, 10, 0, 27 },
```

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{ "CORS", 0000000000000111101101000010011b, 18, 0, 25 },
  { "CPE", 0000000000000000001000100100000b, 13, 0, 20 },
  { "CRES", 00000000000000000001001111101000b, 13, 0, 25 },
   "CRK", 00000000000000101100010000010111b, 18, 0, 20 },
   "CRSE", 000000000000000010001001110000010b, 23, 0, 25 },
  "CRST", 00000000000000001000100111011011b, 22, 0, 27 },
 { "CSWY", 0000000000000000010001001110111b, 20, 0, 26 },
 { "CT", 000000000000000000001111011011b, 10, 0, 14 },
 { "CTR", 000000000000000000000010001110b, 10, 0, 21 },
 { "CTRS", 00000000000000001101101001101010b, 18, 0, 27 },
 { "CTS", 000000000000000000001011010100b, 12, 0, 20 },
 { "CURV", 0000000000000100010010010101101b, 19, 0, 28 },
 { "CVS", 0000000000000010001001111000b, 18, 0, 20 },
 { "CYN", 0000000000000000001101101001100b, 15, 0, 19 },
 { "D", 00000000000000000000000101000b, 6, 0, 0 },
 { "DEPT", 000000000000000000101100001000b, 12, 0, 28 },
 { "DR", 000000000000000000000010011100b, 8, 0, 13 },
 ("DRS", 00000000000000001011000100000100b, 16, 0, 19 },
  "DV", 0000000000000000001011000100001b, 13, 0, 14 },
  "E", 0000000000000000000000000101010b, 6, 0, 0 },
  "EA", 0000000000000000000000111011011b, 9, 0, 12 },
  "EAST", 000000000000000000001010010000b, 10, 0, 26 },
  "ED", 000000000000000000000101100000b, 9, 0, 12 },
  "EE", 000000000000000000000111000110b, 9, 0, 12 },
 "EN", 000000000000000000000000011101b, 7, 0, 12 },
 "ER", 000000000000000000000001110100b, 7, 0, 13 },
{ "ES", 000000000000000000000010111000b, 8, 0, 12 },
 "EST", 0000000000000000000000000101101b, 10, 0, 20 },
 "ESTS", 0000000000000000000001001100b, 16, 0, 26 },
{"EXPY", 00000000000000100010010010111b, 18, 0, 29 },
{ "EXT", 0000000000000000011110110100011b, 14, 0, 22 }.
{ "EXTS", 00000000000000100010011100000001b, 24, 0, 28 },
{ "EY", 000000000000000000000100000101b, 9, 0, 13 },
 "F", 000000000000000000000000011010b, 7, 0, 0 },
 "FALL", 0000000000000000000011011110110b, 14, 0, 23 },
 "FL", 0000000000000000000000001001101b, 10, 0, 12 },
 "FLS", 00000000000000010001001000111110b, 17, 0, 18 },
 "FLTS", 0000000001101101001101001010000b, 24, 0, 26 },
 "FRNT", 00000000001111011010000100100001b, 22, 0, 28 },
{ "FRST", 00000000000011011010011010010101b, 22, 0, 28 }.
{"FRY", 0000000000000000010110101011101b, 16, 0, 21 },
{"FT", 000000000000000000000110111100b, 11, 0, 15}.
 "FWY", 00000000000000011110110100001010b, 17, 0, 21 }.
{ "G", 000000000000000000000001111010b, 7, 0, 0 },
{ "GDNS", 0000000000111101101000010010010b, 21, 0, 25 },
{ "GRN", 00000000000001111011010000100101b, 19, 0, 20 },
 "GRNS", 00000000011011010011010010110100b, 25, 0, 26 },
 "GRVS", 00000000000010001001110000000010b, 26, 0, 28 },
"GTWY", 0000000000011011010011010010000b, 22, 0, 29 },
{ "H", 0000000000000000000000001111101b, 7, 0, 0 },
{ "HBR", 0000000000000000000001000101111b, 16, 0, 21 }.
{ "HIGH", 0000000000000000000010110110001b, 11, 0, 27 },
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{ "HILL", 0000000000000000000010011011110b, 11, 0, 23 },
  { "HLS", 000000000000000000010001001100b, 17, 0, 18 },
 { "HNGR", 0000000000001101101001101001001b, 21, 0, 27 }.
 { "HOLW", 00000000000000000010001001110001b, 20, 0, 25 },
 { "HOME", 0000000000000000000111011001010b, 12, 0, 25 },
 { "HTS", 0000000000000000001011100100110b, 13, 0, 21 },
 { "HWY", 00000000000000000000011000001b, 10, 0, 21 },
 { "I", 000000000000000000000000001111b, 6, 0, 0 },
  "IA", 00000000000000000000000111100000b, 9, 0, 12 },
  "IN", 0000000000000000000000000001110b, 7, 0, 12 }.
 { "INC", 0000000000000000000000000010010b, 8, 0, 18 }.
 { "IND", 000000000000000000001010010100b, 10, 0, 18 }.
 { "ING", 000000000000000000000000001010b, 8, 0, 19 }.
 ("INLT". 00000000001101101001101001011011b, 24, 0, 25 ),
 {"IO", 000000000000000000000011101b, 11, 0, 12},
 { "ION", 000000000000000000000101001001b, 9, 0, 18 },
 { "IR", 0000000000000000000000100000001b, 9, 0, 13 }.
 { "IS", 00000000000000000000000000000001b, 8, 0, 12 },
 { "ISLE", 0000000000000000000110111101111b, 15, 0, 23 },
 { "ISS", 0000000000000000000001101101000b, 12, 0, 18 },
 {"IT", 000000000000000000000111011010b, 9, 0, 14},
 { "IVE", 0000000000000000000000100111101b, 9, 0, 20 }.
 { "J", 000000000000000000000000101110b, 8, 0, 0 },
{"JCT", 00000000000000000110111101110000b, 18, 0, 22 },
{ "JCTS", 00000000000110110100110100101100b, 23, 0, 28 },
{ "K", 0000000000000000000000000010010b, 7, 0, 0 },
{ "KY". 0000000000000000000000000010011b, 12, 0, 14 },
{ "KYS", 0000000000000100010010010101100b, 19, 0, 20 },
{ "L", 0000000000000000000000000010010b, 5, 0, 0 },
{ "LABE", 000000000000000000010110011001b, 11, 0, 24 },
{ "LAKE", 000000000000000000000011111101b, 11, 0, 24 },
{ "LAND", 000000000000000000000001111100b, 10, 0, 23 },
{ "LANE", 0000000000000000000010011101111b, 11, 0, 23 },
{ "LBBY", 00000000000000100010011100000010b, 24, 0, 26 },
{ "LKS", 00000000000000010001001000011100b, 17, 0, 18 },
{ "LNDG", 00000000001111011010000100100010b, 22, 0, 24 },
{"LOOP", 0000000000000000010110001000000b, 14, 0, 25 },
{"LOT", 000000000000000000001101111010b, 13, 0, 19 },
 "LOWR", 0000000000000000101101010111000b, 17, 0, 25 },
{ "M", 000000000000000000000000111001b, 6, 0, 0 },
 "MALL", 000000000000000000000110111011b, 11, 0, 22 },
 "MDWS", 00000000000000001000100111011010b, 22, 0, 25 },
 "MEWS", 00000000000111101101000010010011b, 21, 0, 25 },
 "MRS", 0000000000000000000001001100000b, 13, 0, 19 },
{ "MS", 000000000000000000000000001110b, 10, 0, 12 }.
{ "MT", 0000000000000000000011011110100b, 13, 0, 14 },
{ "MTN", 0000000000000000001101111011101b, 16, 0, 20 },
{ "MTNS", 00000000011011010011010010110101b, 25, 0, 26 },
{ "MTWY", 0000000000010001001110000000011b, 26, 0, 28 }.
{ "NCK", 0000000000000001000100111101b, 17, 0, 19 }.
{ "NE", 000000000000000000000011111000b, 8, 0, 12 },
```

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{ "NOR", 000000000000000000001111000010b, 10, 0, 19 },
 { "NUE", 0000000000000000000001001110110b, 10, 0, 19 },
 { "NW", 0000000000000000000010001000111b, 11, 0, 13 },
 { "O", 0000000000000000000000000100011b, 6, 0, 0 },
 { "OA", 00000000000000000000000010000b, 8, 0, 12 },
 { "OF", 0000000000000000000001011011010b, 10, 0, 13 }.
 { "OFC", 0000000000000000000010001001111b, 17, 0, 19 },
  "OO", 000000000000000000000000011010b, 8, 0, 12 },
  "OPAS", 00000000000000000100010011100001b, 21, 0, 26 }.
  "OR", 000000000000000000000000000111b, 7, 0, 13 },
  "ORCH", 00000000000000000000110110100111b, 14, 0, 26 },
 { "OU", 000000000000000000000100110010b, 9, 0, 13 },
 { "OUR", 0000000000000000000010110000101b, 11, 0, 20 }.
 { "OUT", 0000000000000000000011011111b, 11, 0, 21 },
  "OVAL", 0000000000000011110110100001000b, 17, 0, 25 },
{ "P", 00000000000000000000011100010b, 8, 0, 0 },
 "PARC", 0000000000000000000001011111100b, 12, 0, 27 },
  "PARK", 000000000000000000000011001001b, 10, 0, 28 },
{"PASS", 0000000000000000000101101010101b, 14, 0, 26 },
{"PATH", 00000000000000001011000100000110b, 16, 0, 29 },
{"PH", 000000000000000000000011011100b, 10, 0, 15},
{"PIER", 0000000000000000000101101010100b, 14, 0, 27 },
{ "PIKE", 0000000000000000000000000010010b, 12, 0, 27 },
{ "PKWY", 0000000000000000000000000100011b, 12, 0, 29 },
{"PL", 000000000000000000001111000110b, 10, 0, 13 },
{ "PLA", 00000000000000000000011001000b, 10, 0, 19 },
{ "PLZ", 00000000000000011110110100001011b, 17, 0, 22 },
{ "PNE", 00000000000000000011011110111001b, 17, 0, 20 },
{ "PO", 000000000000000000000101110110b, 9, 0, 14 },
{ "PP", 0000000000000000000001010010001b, 10, 0, 16 },
{ "PR", 000000000000000000000001100101b, 9, 0, 15 }.
{ "PRT", 000000000000000100010011111111b, 18, 0, 23 },
{"PRTS", 00000000000000000100010011101011b, 21, 0, 29}.
{ "PT", 000000000000000000000100110001b, 12, 0, 16 },
{"PTS", 00000000000000000100010010000110b, 15, 0, 22 },
{"Q", 00000000000000000000000110011b, 10, 0, 0 },
{ "RADL", 000000000000000000000010001000b, 14, 0, 24 },
{ "RAMP", 00000000000000100010011111110b, 18, 0, 27 },
{ "RD", 000000000000000000000011110111b, 8, 0, 13 },
{ "RDG", 00000000000000100010010001111001b, 18, 0, 20 },
{ "RDS", 0000000000000000001011100100111b, 13, 0, 19 },
{"REAR", 0000000000000000011011010011011b, 16, 0, 26 },
{ "REET", 00000000000000000000111000010b, 9, 0, 27 },
{ "RIV", 0000000000000000000000001001100b, 9, 0, 21 },
{ "RM", 000000000000000000001000100111b, 10, 0, 13 },
{ "RNCH", 0000000000011011010011010010001b, 22, 0, 26 },
{ "ROW", 000000000000000000101001010101b, 12, 0, 20 },
{ "RPDS", 00000000110110100110100101000101b, 26, 0, 27 },
{"RST", 0000000000000000000101001010100b, 12, 0, 21 },
{ "RT", 000000000000000000000010100111b, 8, 0, 15 },
{ "RTE", 0000000000000000000001011111101b, 12, 0, 21 },
```

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{ "RUE", 00000000000000000111101101000011b, 15, 0, 20 }.
 { "RUN", 000000000000000000011011110101b, 13, 0, 20 },
 { "S", 0000000000000000000000000101111b, 6, 0, 0 },
 { "SALE", 00000000000000000000101101101b, 11, 0, 23 },
 { "SCH", 000000000000000000001010011001b, 10, 0, 19 },
 { "SERV", 000000000000000000000001101101b, 10, 0, 27 },
 { "SH", 0000000000000000000000101100111b, 9, 0, 13 },
 { "SHL", 00000000000000000001111101001b, 13, 0, 18 },
  "SHR", 000000000000000001000100100010100b, 16, 0, 20 },
  "SHRS", 00000000000110110100110100101001b, 23, 0, 26 },
  "SIDE", 000000000000000000000111000b, 12, 0, 24 },
  "SKWY", 00000000110110100110100101000100b, 26, 0, 27 },
  "SLIP", 00000000000000101100010000010110b, 18, 0, 25 },
  "SMT", 00000000000000011011010011010001b, 19, 0, 20 },
  "SOUT", 0000000000000000000001010110111b, 10, 0, 27 },
  "SP", 0000000000000000000000000100111b, 9, 0, 14 },
  "SPC", 00000000000000000000010001001101b, 17, 0, 20 },
  "SPGS", 00000000000000011011010011010000b, 19, 0, 27 },
  "SPUR", 00000000000000000000001000101101b, 16, 0, 28 },
  "SQ", 0000000000000000000000110111100b, 12, 0, 16 },
  "ST", 0000000000000000000000011111001b, 8, 0, 14 },
  "STA", 00000000000000000000001010010110b, 10, 0, 20 },
 "STE", 00000000000000000000000100111111b, 9, 0, 20 },
 "STOP", 0000000000000000000101101010110b, 14, 0, 28 },
 "STOR", 00000000000000000000010100110110b, 11, 0, 27 },
{ "STR", 00000000000000000000000110001b, 8, 0, 21 },
{ "STRA", 0000000000000000011110110100000b, 14, 0, 27 },
{ "STRM", 00000000000000000010001001110100b, 20, 0, 27 },
 "STS", 00000000000000000001011010101111b, 15, 0, 20 },
{ "SUIT", 0000000000000000000001101110b, 10, 0, 27 },
 "SW", 0000000000000000000010001001100b, 11, 0, 13 },
 "T", 000000000000000000000000011110b, 8, 0, 0 },
 "TER", 000000000000000000000000110011b, 8, 0, 21 },
{ "TH", 000000000000000000000000001100b, 7, 0, 15 },
{ "THE", 00000000000000000000011110000116, 10, 0, 21 },
{ "TO", 000000000000000000000010011010b, 8, 0, 14 },
{ "TPKE", 00000000000000010110001000001010b, 17, 0, 29 },
{ "TRAK", 0000000000000000110111101110001b, 18, 0, 28 },
{ "TRCE", 000000000000000001001101101100b, 21, 0, 27 },
{ "TRFY", 00000000000001000100111000000000b, 25, 0, 29 },
{"TRL", 00000000000000001011000100000111b, 16, 0, 20 },
{ "TRLR", 00000000000000011011010011010011b, 19, 0, 27 },
{ "TRWY", 0000000000000000100010011101010b, 21, 0, 29 },
 "TT", 0000000000000000000000001011011b, 9, 0, 16 },
 "TUNL", 000000000000000100010011100000011b, 24, 0, 26 },
 "U", 00000000000000000000000001110101b, 7, 0, 0 },
 "U!", 0000000000000000000000000110000b, 10, 0, 13 },
 "UN", 0000000000000000000000100010100b, 9, 0, 13 },
 "UNIT", 0000000000000000000010011001101b, 11, 0, 27 },
 "UNS", 0000000000000000000011011010010b, 13, 0, 19 },
{ "UPAS", 00000000001111011010000100100000b, 22, 0, 27 },
```

Fig. 4H

FIELD NAME	MAX SIZE SYMBOLS & TYPE	
Message Header 1)>Rs	6 (includes two symbols for Codeset A Escape characters)	
Format 01 Header 01Gs 96	5	
Ship to Postal Code	Mode 2-9N Mode 3-6AN	
Field Separator Gs	1	
Ship to ISO Country Code	3N	
Field Separator Gs	1	
Class of Service	3N	
Field Separator Gs	1	
Tracking Number	10AN Track #	
Field Separator Gs	1	
Origin Carrier SCAC UPSN	4	
Field Separator Gs	1	
Shipper ID	6AN	
Format Trailer Rs	1	
Format Header Indicator (07) (free form text) <sup>5</sup>	2	
UPS Free Form Text	AN45	
Format Trailer (Rs)	1	
Message Trailer Eot	2 (includes one symbol for Codeset A Escape character)	
Total Symbols in Secondary Portion of MaxiCode	84	

**FIG.** 5

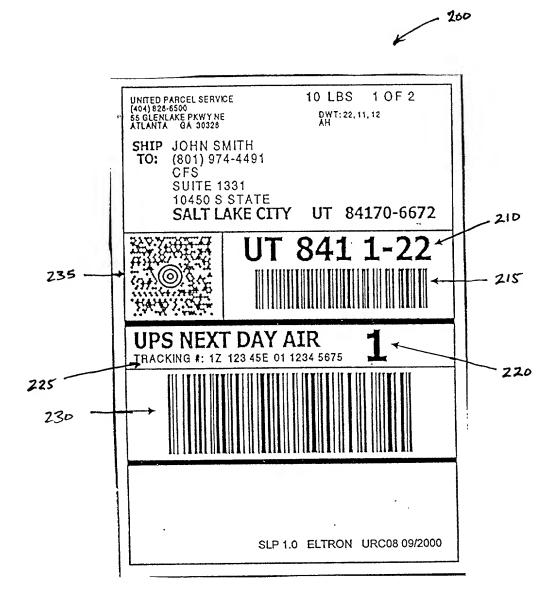
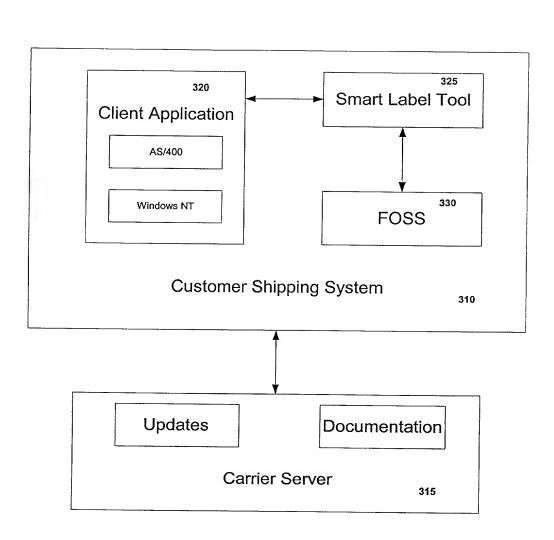


Fig. 6



300

Fig. 7

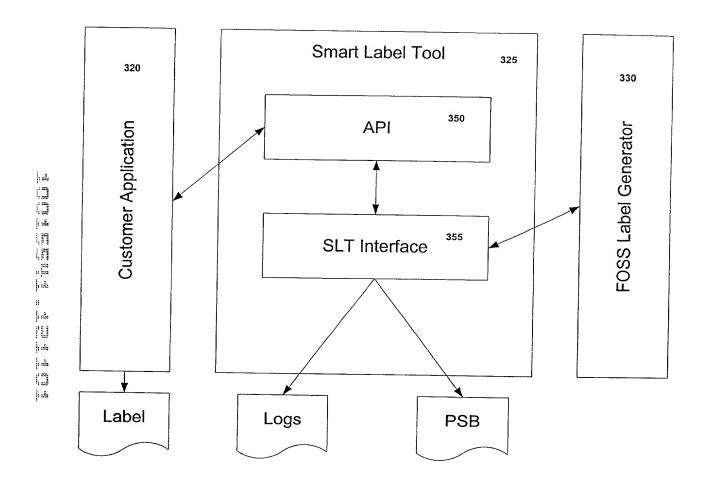


Fig. 8

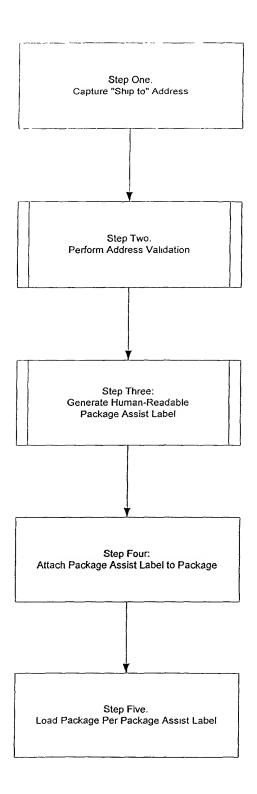


Fig. 9

## Preload Assist Label (PAL)

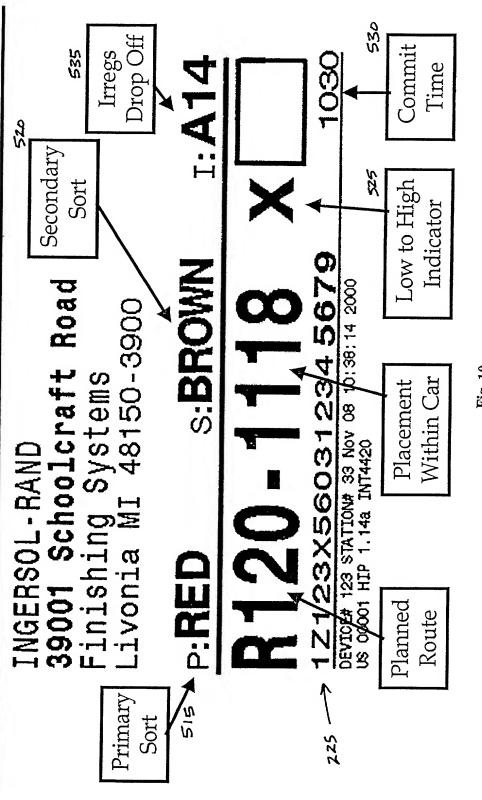


Fig. 10

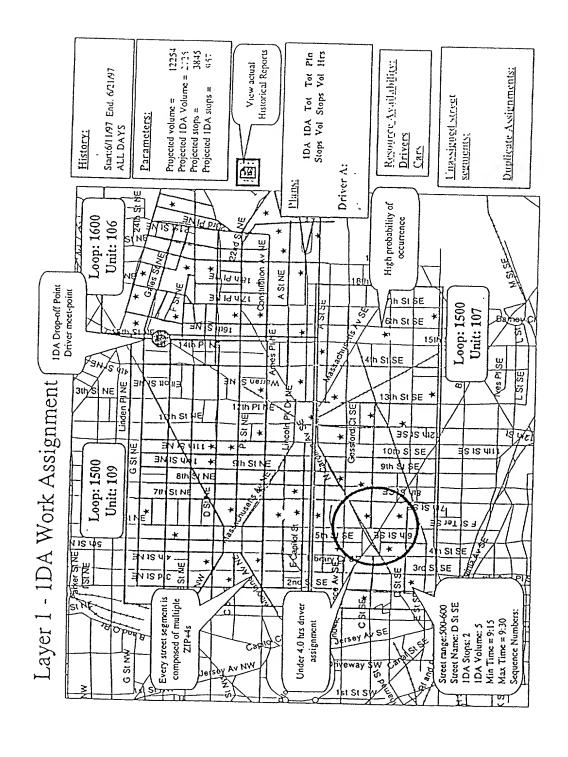
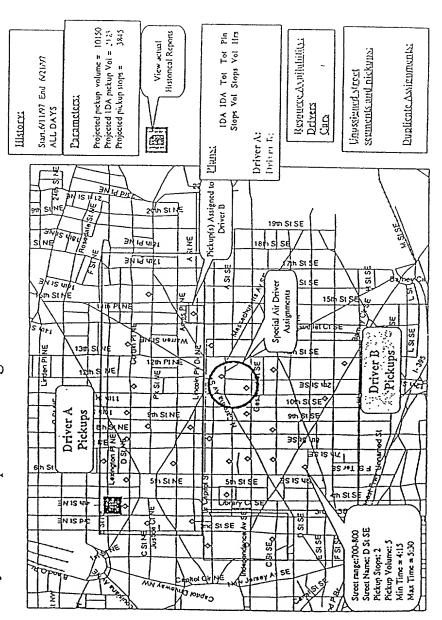


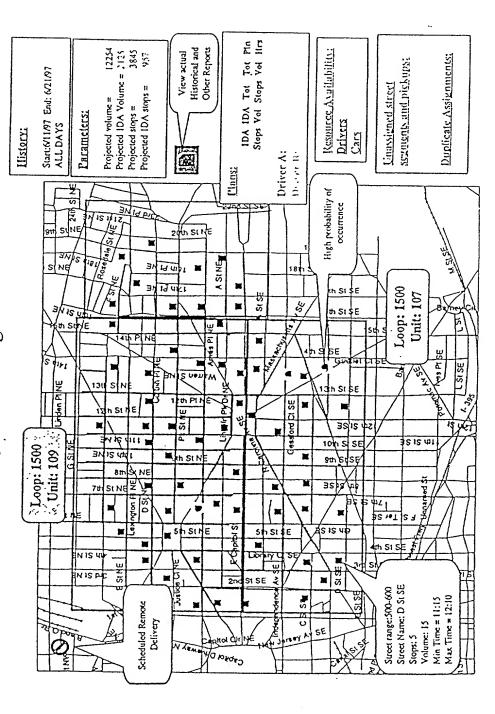
Fig. 1

Fig. 12

Layer 2 - Pickup Work Assignment



Layer 3 - Other Delivery Work Assignment



Layer 4 - Actual Driver Trace and Performance and

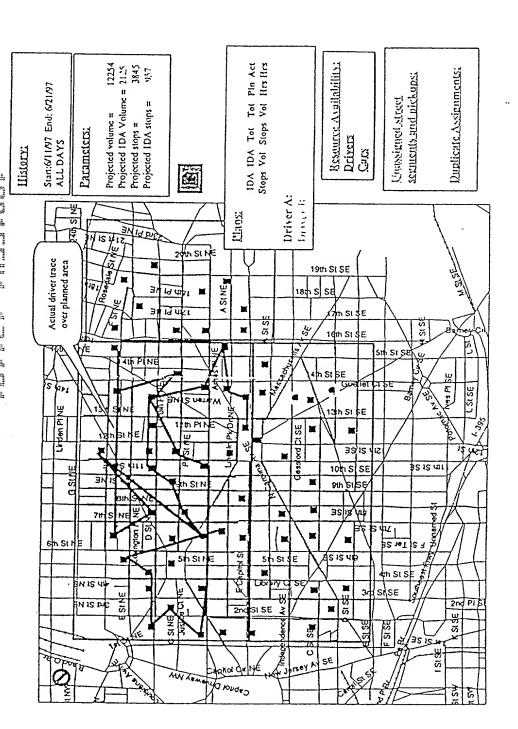


Fig. 14

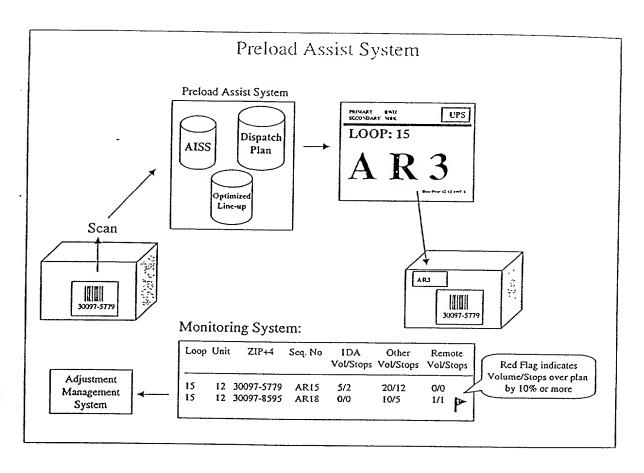


Fig. 15